Dolphin – Fishery Interaction Workshop II

Raleigh, North Carolina July 11 – 12, 2001

A Report to NOAA Fisheries

Prepared by

Hans Neuhauser and Jim Feldt Georgia Environmental Policy Institute 380 Meigs Street Athens, GA 30601

July 25, 2001

Table of Contents

Introduction page 3
Invited Participants 3
Workshop Attendees 4
Materials Distributed 4
Comments by Invited Participants and Observers 7
Appendix 1: Participants, presenters and observers 10

Introduction

The Marine Mammal Protection Act (MMPA) requires the Secretary of the U.S. Department of Commerce, acting through the National Marine Fisheries Service, to develop and implement a take reduction plan designed to assist in the recovery or prevent the depletion of each strategic stock which interacts with a Category I or II fishery.

In a letter to invitees to the first workshop held on May 15 – 16, 2001, Acting Regional Administrator Joseph Powers wrote: "The coastal stock of the Atlantic bottlenose dolphin has been designated as a strategic stock both as a result of its depleted designation under the MMPA and because its Potential Biological Removal is exceeded by mortalities in several fisheries, including: the mid-Atlantic coastal gillnet fishery, the North Carolina inshore gillnet fishery, the southeastern Atlantic shark gillnet fishery, the South Atlantic coastal gillnet fishery, the North Carolina stop net and long haul seine fisheries, the mid-Atlantic haul/beach seine fishery, the Atlantic blue crab trap/pot fishery and the mid-Atlantic pound net fishery."

Invitees were requested to attend two workshops to share data and other information relative to bottlenose dolphin/fishery interactions in advance of the formation of a Bottlenose Dolphin Take Reduction Team.

The first of the two planned information-sharing workshops covered Take Reduction Team basics, bottlenose dolphin stock structure and bottlenose dolphin abundance. The workshop also provided opportunities for public comment. The workshop was held at the Sheraton Atlantic Beach Hotel in Atlantic Beach, North Carolina, on May 15 and 16, 2001. Dr. Kathy Wang of the Protected Resources Division, Southeast Regional Office of NOAA Fisheries chaired the workshop. The workshop facilitators were Hans Neuhauser and Jim Feldt of the Georgia Environmental Policy Institute. A final report on the first workshop was distributed to NOAA Fisheries on May 30, 2001 and subsequently to invited participants.

The second workshop to share data and other information covered general biology of bottlenose dolphins, updates on stock structure, abundance and potential biological removal, bottlenose dolphin mortality and fishery characterizations. Again, the workshop provided opportunities for public comment. The workshop was held at the Raleigh-Durham Airport Holiday Inn in Research Triangle Park, North Carolina on July 11 and 12, 2001. Again, Dr. Kathy Wang of the Protected Resources Division, Southeast Regional Office of NOAA Fisheries chaired the workshop. The workshop facilitators were Hans Neuhauser and Jim Feldt of the Georgia Environmental Policy Institute. This report provides information on the second workshop.

Invited Participants

Letters of invitation from NOAA Fisheries were sent to a total of 41 people. Of these, 19 are commercial fishermen, 1 is a recreational fisherman, 5 are scientists, 3 represent non-governmental conservation organizations, 3 represent fishery management councils and commissions, 9 represent state agencies, and 1 represents the Marine Mammal Commission.

Workshop Attendees

A total of 56 people registered as attending the workshop. Of these, 29 were invited participants (71% attendance), seven were presenters, two were facilitators and 18 were observers. Attendees are listed in Appendix 1.

Materials distributed

Workshop information

Workshop agenda

Expense reimbursement form for invited participants

List of invited participants planning to attend the workshop (see appendix 1 for corrected list)

Documents related to: $1^{\rm st}$ Dolphin-Fishery Interaction Workshop, 15-16 May 2001 Atlantic Beach, NC

Comments from the Atlantic Scientific Review Group, April 26, 2000 (R. S. Wells)

Summary of bottlenose dolphins stranded along the Atlantic coast of the US

Spatial distribution of bottlenose dolphin sightings in aerial surveys – Powerpoint reprints (L. Garrison)

Summer abundance estimates Mid-Atlantic US continental shelf – Powerpoint reprints (L. Garrison et al)

Northeast abundance surveys – Powerpoint reprints (D. Palka)

Explanation of PBR – Powerpoint reprints (D. Palka)

Comparison of survey results and best estimates of abundance – Powerpoint reprints (D. Palka)

Genetic analysis of stock structure of coastal bottlenose dolphins in the northwest Atlantic – Powerpoint reprints (P. E. Rosel)

Genetic and spatial analysis of the degree of overlap between coastal and offshore bottlenose dolphins in the northwest Atlantic – Powerpoint reprints (P. E. Rosel)

Stock structure of coastal bottlenose dolphins, *Tursiops truncatus*, along the U.S. Atlantic coast – Powerpoint reprints (A. A. Hohn)

Management by stock: review of legislation and policy – Powerpoint reprints (A. A. Hohn)

Photo-identification and the Mid-Atlantic bottlenose dolphin central catalog (MABDC) – Powerpoint reprints (K. Urian)

Revised SEC aerial survey abundance estimates (L. Garrison)

Coastal stock(s) of Atlantic bottlenose dolphin: status review and management: Proceedings and recommendations from a workshop held in Beaufort, North Carolina, 13-14 September 1993 – reprint (K. R. Wang et al)

Gross evidence of human-caused mortality in small cetaceans – reprint (A. J. Reed et al)

Coastal bottlenose dolphin mortality in the directed shark gillnet fishery (L. Garrison)

Requests from the May 2001 workshop – follow-up

Documents related to: 2nd Dolphin-Fishery Interaction Workshop, 11-12 July 2001 Raleigh, NC

Initial workshop of gear modification options to reduce the mortality of bottlenose dolphins in fishing gear – draft meeting summary

Comparison of 1996 – 2000 bycatch of coastal bottlenose dolphin (*Tursiops truncatus*) in U.S. Mid-Atlantic gillnet fisheries as estimated by the ratio, delta-distribution, and log-linear regression methods (M. Rossman et al)

The dolphin dieoff: long-term effects and recovery of the population – reprint (G. P. Scott et al)

Mortality estimates for Atlantic bottlenose dolphin in the directed shark fishery of Florida and Georgia (L. Garrison)

Draft conservation plan for the western North Atlantic stock of bottlenose dolphins (*Tursiops truncatus*) – reprint (D. A. Pabst et al)

Characterization of North Carolina commercial fisheries with occasional interactions with marine mammals – reprint (C. Steve et al)

Gear characteristics of Mid-Atlantic gillnet hauls that catch bottlenose dolphins (D. Palka)

Summary of bottlenose dolphin strandings along the Atlantic coast of the U.S. 1997 – 1999

Mid-Atlantic Take Reduction Team recommendations pertaining to bottlenose dolphins

Summary of bottlenose dolphin strandings from New York to Virginia (D. Palka et al)

Characterization of bottlenose dolphin strandings in North Carolina, 1997 – 2000

Proposed bottlenose dolphin take reduction team

Meeting minutes of the ALWTRT Mid-Atlantic Subgroup, Alexandria, VA, August 25, 2000

ALWTRT Mid-Atlantic sub-group meeting recommendations to NMFS, Alexandria, VA, August 25, 2000

Maryland Chesapeake Bay haul seine harvest

Other handouts and materials

Bottlenose dolphin biology overhead reprints (J. Reynolds)

Preliminary stock structure of coastal bottlenose dolphins along the Atlantic coast of the US – replacement pages July 2001 (SEFSC staff)

Summary of abundance estimates for coastal *Tursiops* for waters between New York and Florida during 1995 to 2000 (D. Palka et al.)

Bottlenose dolphin abundance estimates using strip transect encounter rates (L. Garrison et al)

Potential Biological Removal estimates (D. Palka)

ASMFC Atlantic coastal fisheries characterization database – Marine mammal interactions sorted by species, gear type & state

Blue crab and shad fishery descriptions - Georgia Department of Natural Resources Coastal Resources Division

New Jersey gill net fishery for Atlantic mackerel (and other species)

Look out for commercial fishing gear! – New Jersey Sea Grant

S.E. Florida shark drift gill net buy out proposal (S. M. Baker)

Comments by Invited Participants and Observers

At the end of each day of the workshop, both invited participants and observers were invited to submit comments.

Comments submitted July 11, 2001

"One more suggestion from Sue Barco about information that would be good for the group to have early on in the TRT process.

Characteristics of all gear (esp. net) removed from stranded *Tursiops* from NJ? Central FL (esp. VA & NC)

Stranding networks send gear retrieved off stranded critters to NMFS. Those gear can add info to the observed take data. I know there are at least 3 pieces of net from VA over the past 5 years, probably more from NC."

Comments submitted July 12, 2001

Editor's note: Items in brackets [] are the editor's best estimate of the word. Emphases in the text are in the original.

"Sue Barco

Suggestion 1:

Regarding the northern limit of the winter mixed stock:

Stranding data, observer data and opportunistic sightings suggest that bottlenose dolphins occur in the coastal waters of southeastern VA outside of the seasonal 'summer' season.

Perhaps the winter northern limit of the mixed stocks should be moved north to Chesapeake Bay to reflect a geographically similar coastline more recognizable as a biological unit than a political state line boundary (VA/NC state border).

A similar change may be appropriate for the summer northern limit of the NNC management unit.

Suggestion 2:

Analyze VA & NC stranding data together since the stranding data & FI-YES data are complimentary seasonally.

Suggestion 3:

Re-analyze 1987 - 88 stranding data in comparison to 5 years average post-event and compare it with 5 year average pre-event.

Suggestion 4:

To determine abundance from the strip surveys in NC do not assume that density within 2 km of shore is the same within the entire 12 km 'coastal' region. Opportunistic observations do not support this."

"Public comments – Rick Marks

Comments/Requests July 11 – 12 meeting

Information was not received in advance of the meeting, as requested

All constituents from NJ to FLA appointed to the TRT must be informed ASAP regarding the upcoming Sept [meeting]

How will the mortality, abundance and PBR estimates be reviewed and on what schedule?

Respectfully request further clarification of the bycatch mortality estimate

Bycatch mortality estimates <u>must</u> reflect fish harvest reductions resulting from fishery

mgmt plan regulations.

Comments on Info Requested from May 15 - 16 meeting

We did not receive a copy of the BND conservation plan

We did not receive copies of SRG's schedule to review the 4 mgmt unit approach

We were not provided with research needs for NMFS scientists

We requested copies of the SRG documents related to abundance and survey methodology – is the April 26, 2000 3 page memo the full extent of the SRG review?

Thank you for the info that was provided."

Appendix 1

Participants and Presenters

Mike Baker SE Shark Gill Net Assn. P. O. Box 1048 Port Salerno, FL 34992

Tel: 561-201-7967

Email: SEIJIONE@aol.com

David A. Beresoff Beresoff Fishing Company 511 Mulligan Way Bolivia, NC 28422 Tel: 910-842-4281

Tina Berger Atlantic States Marine Fisheries Commission 1444 Eye St., NW, Sixth Floor Washington, DC 20005

Tel: 202-289-6400

Email: tberger@asfmc.org

Fax: 202-289-6051

Paul Biermann 103 Aqua 10 Road Beaufort, NC 28516 Tel: 252-728-4817

Email: biermann@gbinetwork.com

Diane Borggaard Protected Resources Division NOAA Fisheries 9721 Executive Center Drive St. Petersburg, FL 33702-2432

Tel: 727-570-5312

Email: <u>Diane.Borggaard@noaa.gov</u>

Fax: 727-570-5517

Therese Conant Office of Protected Resources NOAA Fisheries 1315 East-West Hwy., Rm. 13630 Silver Spring, MD 20910 Tel: 301-713-1401

Email: <u>Therese.Conant@noaa.gov</u>

Fax: 301-713-3076

Tara Cox

Duke University

135 Duke Marine Lab Road

Beaufort, NC 28516 Tel: 252-504-7570 Email: tmc4@duke.edu

Fax: 252-504-7648

Jim Feldt

Georgia Environmental Policy Institute

156 St. Clair Dr.

St. Simons Island, GA 31522-1035

Tel: 912-638-7843 Email: <u>feldt@gate.net</u>

Fax: 912-638-7843 (call first)

Lance Garrison SEFSC Miami Lab NOAA Fisheries 75 Virginia Beach Blvd.

Miami, FL 33149 Tel: 305-361-4488

Email: lance.garrison@noaa.gov

Lewis S. Gillingham

Virginia Marine Resources Commission 2600 Washington Ave., 3rd Fl. Newport News, VA 23607

Tel: 757-247-2243

Email: lgillingha@mrc.state.va.us

Fax: 757-247-2264

Bruce A. Halgren

New Jersey Division of Fish and Wildlife

P. O. Box 400 Trenton, NJ 08625 Tel: 609-748-2020

Email: njfgwhalgren@plexi.com

Bhalgren@dep.state.nj.us

Fax: 609-748-2032

Emily Hanson

Office of Protected Resources NOAA Fisheries 1315 East-West Highway F/PR 2 Silver Spring, MD 20910

Tel: 301-713-2322 x101

Email: emily.hanson@noaa.gov

Fax: 301-713-4060

Aleta A. Hohn Southeast Fisheries Science Center NOAA Fisheries 101 Pivers Island Road Beaufort, NC 28516-9722

Tel: 252-728-8797

Email: Aleta.Hohn@noaa.gov

Fax: 252-728-8784

Douglas Haymans

Georgia Department of Natural Resources Coastal Resources Division – Marine Fisheries One Conservation Way, Suite 300

Brunswick, GA 31520 Tel: 912-262-3115

Email: Doug_Hayman@coastal.dnr.state.ga.us

Fax: 912-264-3143

Steve Lowe

Organized Fishermen of Florida 238 Bimini Dr. Fort Pierce, FL 34949

Tel: 561-465-9189 Fax: 561-468-5177

Richard Luedtke Garden State Seafood Assn. 233 Schooner Rd. Manahawkin, NJ 08050

Tel: 606-698-9577

Email: canyousaymonk@aol.com

Rick Marks

Garden State Seafood Association Robertson, Monagle & Eastaugh 2300 Clarendon Blvd., Ste, 1010 Arlington, VA 22201

Tel: 703-527-4414

Email: <u>remarks@roea-dc.com</u>

Fax: 703-527-0421

Wayne McFee

National Ocean Service

NOAA Fisheries

219 Ft. Johnson Rd.

Charleston, SC 29412

Tel: 843-764-8592

Email: Wayne.McFee@noaa.gov

Fax: 843-762-8700

William McLellan

Biological Sciences & CMS

UNC Wilmington

601 South College Road

Wilmington, NC 28403

Tel: 910-962-7266

Email: mclellanw@uncwil.edu

Fax: 910-962-4066

Fentress "Red" Munden

North Carolina Division of Marine Fisheries

P. O. Box 769

Morehead City, NC 28557

Tel: 252-726-7021

Email: red.munden@ncmail.net

Fax: 252-726-0254

Robert Munson

New Jersey Watermens Association

P. O. Box 358

52 Newport Road

Newport, NJ 08345

Tel: 856-447-3814

Email: munsonr@algorithms.com

Fax: 856-447-0001

Hans Neuhauser

Georgia Environmental Policy Institute

380 Meigs Street

Athens, GA 30601

Tel: 706-546-7507

Email: gepi@ix.netcom.com

Fax: 706-613-7775

Kerry O'Malley

South Atlantic Fishery Management Council

1 Southpark Circle, Suite 306

Charleston, SC 29407 Tel: 843-571-4366

Email: Kerry.Omalley@noaa.gov

Fax: 843-769-7520

William Outten

Maryland Dept. of Natural Resources

580 Taylor Ave.

Annapolis, MD 21401

Tel: 410-260-8266

Email: boutten@dnr.state.md.us

Fax: 410-260-8278

Debra Palka

Northeast Fisheries Science Center

NOAA Fisheries

166 Water St.

Woods Hole, MA 02543

Tel: 508-495-2387

Email: <u>Debra.Palka@noaa.gov</u>

Fax: 508-495-2258

Carl A. Poppell

Georgia Blue Crab Issues Subcommittee

Coastal Fisheries Advisory Council

P. O. Box 78

Crescent, GA 31304

Tel: 912-832-5657

Email: cpoppell@darientel.net

Fax: 912-832-6708

Tim Ragen

U. S. Marine Mammal Commission

4340 East-West Highway, Rm. 905 Bethesda, MD 20814

Tel: 301-504-0087

Email: <u>tragen@mmc.gov</u>

Fax: 301-504-0099

John E. Reynolds

U. S. Marine Mammal Commission

1600 Ken Thompson Pkwy.

Sarasota, FL 34234

941-388-4441 x472

Email: reynolds@mote.org

Marjorie Rossman NOAA Fisheries 166 Water St. Woods Hole, MA 02543

Tel: 508-495-2111

Email: Marjorie.Rossman@noaa.gov

Fax: 508-495-2066

Richard Seagraves Mid-Atlantic Council 300 S. New St., Room 2115 Dover DE 19904

Tel: 302-674-2331

Email: rseagraves@mafmc.org

Fax: 302-674-5399

W. Mark Swingle Virginia Marine Science Museum 717 General Booth Blvd. Virginia Beach, VA 23451

Tel: 757-437-6022

Email: mswingle@vbgov.com

Fax: 757-437-4933

Kathy Wang Protected Resources Division NOAA Fisheries 9721 Executive Center Drive St. Petersburg, FL 33702-2432

Tel: 727-570-5312

Email: Kathy.Wang@noaa.gov

Fax: 727-570-5517

Robert A. West Gillnetter Cape Hatteras Harbor Porpoise TRT P. O. Box 52

Buxton, NC 27920 Tel: 252-995-4131

Email: west1234@earthlink.net

Fax: 252-995-4131

A. D. (Drew) Willis

Coastal Conservation Association

201 Hillcrest Road New Bern, NC 28562 Tel: 252-633-2595

Email: adwillis@cconnect.net

Fax: 252-633-2595

David Woolman South Carolina Crabbers Assn. P. O. Box 117 Johns Island, SC 29457

Tel: 843-559-5783

Email: <u>bjwoolman@prodigy.net</u>

Nina M. Young The Ocean Conservancy 1725 DeSales St. NW Washington, DC 20036 Tel: 202-857-3276

Email: nyoung@oceanconservancy.org

Fax: 202-872-0619

Sharon Young The Humane Society of the U.S. 22 Washburn St. Sagamore Beach, MA 02562

Tel: 508-833-0181

Email: sbyoung@capecod.net

Fax: 508-833-1576

Christopher Zeman American Oceans Campaign 579 Hamilton Place River Vale, NJ 07675

Tel: 201-263-9756

Email: czeman@americanoceans.org

Fax: 201-263-9758

Observers registering as in attendance

Sue Barco, Virginia Marine Science Museum, Virginia Beach, VA

Barbie Byrd, National Marine Fisheries Service (NMFS), Beaufort, NC

Megan Cope, NMFS, Beaufort, NC

Jennifer Coutts, Nags Head Dolphin Watch, Nags Head, NC

Mac Currin, North Carolina Marine Fisheries Commission, Raleigh, NC

Ginny Elder, National Aquarium, Baltimore, MD

Bill Foster, NMFS, Hatteras, NC

Pam Govett, North Carolina State University, College of Veterinary Medicine, Raleigh, NC

Craig Haras, North Carolina State University, College of Veterinary Medicine, Center for Marine Science and Technology, Morehead City, NC

Nicholas Herlns, NMFS, Pascagoula, MS

Kate Mallon-Day, Nags Head Dolphin Watch, Nags Head, NC

Robert G. Overman, University of Georgia Marine Extension Service, Brunswick, GA

Ali Pool, NMFS Southeast Regional Office, St. Petersburg, FL

Jackie Poppell, Crescent, GA

Steve Rebach, NC Sea Grant, Raleigh, NC

Dustin Schrimpsher, North Carolina Fisheries Association, New Bern, NC

Kim Urian, NMFS Beaufort, Beaufort, NC

Danielle Waples, Duke University Marine Lab, Beaufort, NC